

## Message Text

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ACTION EB-07

INFO OCT-01 CIAE-00 COME-00 DODE-00 NSAE-00 TRSE-00 EUR-12

ERDA-05 ISO-00 EA-06 MC-02 INR-07 ACDA-05 /045 W

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TO SECSTATE WASH DC 5835

C O N F I D E N T I A L SECTION 01 OF 03 OECD PARIS 06044

EXCON

E.O. 11652 XGDS1

TAGS: ESTC, COCOM

SUBJECT: COCOM LIST REVIEW: IL 1091 - NUMERICAL CONTROL  
MACHINE TOOLS

REFS: A. COCOM DOC REV (74) 17

B. COCOM DOC REV (74) 7, SECOND ADDENDUM

C. COCOM DOCS REV (74) 1091/1 AND 2

D. COCOM DOC REV (74) 1091/3

E. STATE 40521

F. COCOM DOC (74) 1091/4

SUMMARY: FOLLOWING TWG DISCUSSION OF US PROPOSAL ON MARCH 4, MARCH 5 MEETING REVEALED STRONG OPPOSITION FROM UK, JAPAN, FRANCE, AND NETHERLANDS, WHO FELT WE DID NOT GO FAR ENOUGH TOWARD LIBERALIZATION JUSTIFIED BY PROGRESS IN TECHNOLOGY AND SOVBLOC AND NON-COCOM CAPABILITIES. THERE WAS GENERAL SUPPORT FOR GERMAN NOTE FOR CNC EXPORTS. SUBJECT TO INCLUSION OF GERMAN NOTE, US COUNTERPROPOSAL WAS CONDITIONALLY ACCEPTED BY GERMANS AND DUTCH AND AD REF BY JAPAN. OTHER DELEGATES RESERVED. ACTION REQUESTED: FORMULATION OF FURTHER US REVISED PROPOSAL TO TAKE ACCOUNT OF ROUND I AND II POSITIONS BY OTHER DELS, AND TRANSMISSION OF INSTRUCTIONS ON JAPANESE PROPOSAL (PARA. 9 BELOW). END

SUMMARY

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1. REVISED US PROPOSAL (REFS E AND F) DISCUSSED IN TECHNICAL WORKING GROUP (SEE SEPTTEL ON IL 1568 (B) FOR COMPOSITION) MARCH 4 AND AGAIN IN PLENARY FOLLOWING DAY. US (TTG-10 CHAIRMAN) CHAIRED THE TWG.

2. AFTER SUMMARY BY US EXPERTS IN TWG, EXPLAINING DIFFERENCES BETWEEN US PROPOSAL IN REFS A AND F, EXPERTS OF OTHER DELS MADE FOLLOWING COMMENTS AND SUGGESTIONS: (A) DUTCH PRESSED FOR A FINER POSITIONING ACCURACY CUT-OFF FOR BORING MILLS AND MACHINING CENTERS IN SUBITEM (B)(I)(2) AND EQUIVALENT AE NOTE L(A)(2), BECAUSE THESE TWO TYPES OF MACHINES ARE GENERALLY MORE ACCURATE EVEN IN STANDARD VERSIONS THAN THE OTHER MACHINE TOOLS COVERED BY THE ENTRY.

(B) DUTCH ALSO SUGGESTED THAT THE TERM "ASSOCIATIVE SOFTWARE" IN SUBITEM (C) SHOULD BE CHANGED TO "RELATED SOFTWARE" FOR CLARITY.

(C) THE UK SUGGESTED THAT IN (B)(I)(5) AND (II)(2) AND AE NOTES 1(A)(5) AND (B)(2), RADIAL AND AXIAL SPINDLE RUNOUT BE MEASURED AT THE SPINDLE AXIS SINCE SUCH A LOCUS WOULD BE MORE DEFINITIVE AND EXPLANATORY.

(D) THE FRENCH REPEATED THEIR FIRST ROUND REQUEST THAT THE TERM "PEAK TO PEAK" FOLLOW THE TERM "TIR" WHEREVER IT APPEARS, IN ORDER TO CONFORM WITH ESTABLISHED EUROPEAN PRACTICE.

(E) THE UK QUESTIONED THE CHANGED WORDING IN THE ROUND II PROPOSAL CONCERNING THE ALLOWABLE NUMBER OF CO-ORDINATED MACHINE TOOL AXES. THEY FAVORED THAT IN THE PRESENT DEFINITION, WHICH CONSIDERED A SHARED DRIVE MOTOR DESIGN. IN RESPONSE TO A STATEMENT BY THE GERMAN EXPERT THAT THE CONTROL SYSTEM WAS THE ONLY LIMITATION ON THE EXPORT OF MULTIAXIS MACHINE TOOLS THE US COUNTERED THAT THE INTENT OF THE SECTION IS THAT NUMBER OF AXES ON THE CONTROL SYSTEM IS NOT THE LIMITING FACTOR IN DETERMINING THE NUMBER OF CONTOURING AXES OF THE MACHINE TOOL. A MACHINE TOOL WITH 3, 4, OR 5 AXES, EACH CAPABLE OF CONTINUOUS PATH CONTROL, IS AN EMBARGOED 3, 4, OR 5 AXIS MACHINE EVEN IF IT IS MARRIED TO A CONTROL SYSTEM OF ONLY 2 AXES. THE DEFINITION PERMITS ONLY EXTRA POSITIONING AXES.

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3. THE GERMAN EXPERT THEN EXPLAINED THE CNC ADMINISTRATIVE EXCEPTION NOTE PROPOSED IN REF D. ALL EXPERTS PRESENT AGREED TO THE DELETION OF CHARACTERISTIC 3, TAPE READER SPEED, AND EXCEPT FOR THE US, ALL EXPERTS AGREED TO THE NOTE AS AMENDED. DRAWING ON US DRAFT NOTE 3 WHICH WAS NOT SUBMITTED (REF E), US EXPERTS SUGGESTED THAT GREATER CONTROL OF SOFTWARE WAS REQUIRED,

AND PREFERRED A COARSER MINIMUM PROGRAMMABLE INCREMENT

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(0.010 MM RATHER THAN 0.001 MM). THEY ALSO CALLED FOR LIMITATIONS ON E MEMORY SIZE FOR PART PROGRAM STORAGE, AND CONTROL OVER THE TYPE OF MACHINE TO WHICH THE CNC SYSTEM COULD BE ATTACHED. ALL OTHER EXPERTS FELT THE US DESIRE TO LIMIT THE MPI WOULD CURTAIL POTENTIAL USAGE OF THE CNC SYSTEMS AND SERIOUSLY NEGATE THE USEFULNESS OF THE GERMAN NOTE.

4. IN AN ASIDE AT THE END OF THE TWG MEETING, THE GERMAN EXPERTS ASKED FOR VIEWS ON THE RELATIONSHIP OF MANIPULATIVE CONTROLS AND INDUSTRIAL ROBOTS TO THE IL 1091 EMBARGO. THE US REP RESPONDED THAT IF SUCH EQUIPMENT INVOLVED A CNC SYSTEM, IT WOULD FALL UNDER IL 1091. A NUMBER OF OTHER DELEGATIONS FELT THAT THE QUESTIONS NEEDED ADDITIONAL STUDY.

5. AT THE PLENARY DISCUSSION THE FOLLOWING DAY, THE US RAPPORTEUR (MISKELL) SUMMARIZED TWG DISCUSSION AS ABOVE.

6. UK DEL, IN GENERAL COMMENTARY, NOTED THAT IL 1091 WAS ONE OF THOSE ITEMS BY WHICH SUCCESS OR FAILURE OF CURRENT LIST REVIEW WOULD BE JUDGED, ONE OF HIGH COMMERCIAL IMPORTANCE FOR UK INDUS-

TRY, AND ONE WHERE BLOC AND NON-BLOC, NON-COCOM CAPABILITY AND COMPETITION WAS WORTHY OF CAREFUL CONSIDERATION. HE HAD BEEN INSTRUCTED TO EXPRESS HIS DISAPPOINTMENT.  
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MENT WITH THE VERY MODEST RELAXATIONS WHICH US REVISED PROPOSAL OFFERED, AND FELT FAILURE TO PROVIDE AN AE NOTE TO PERMIT EXPORT OF CONTROLLERS FOR USE ON BLOC MACHINES IN THE BLOC WAS PARTICULARLY UNFORTUNATE. IN VIEW OF THE GENERALLY DEPRESSED STATE OF THE UK ECONOMY, AND ESPECIALLY OF THE MACHINE TOOL INDUSTRY, HMG WOULD BE HARD PUT TO JUSTIFY TO THAT INDUSTRY ITS AGREEMENT TO A NOTE WHICH WOULD FACILITATE BLOC EXPORTS (INCLUDING TO THE UK) OF MACHINES WITH WESTERN CONTROLLERS WHEN WESTERN CONTROLLERS COULD NOT EASILY BE LICENSED FOR USE WITH BLOC MACHINES IN BLOC COUNTRIES. AS TO THE AE NOTES SUGGESTED BY THE US, THEY FELT THAT THE RESTRICTIVE CONDITIONS WERE TOO STRICT FOR THE TYPE OF EQUIPMENT INVOLVED. THEY FELT THAT 3-AXIS CONTROLLERS MEETING THE SUBITEM PARAMETERS FOR EXCEPTION WERE OF MARGINAL CONCERN. THE UK SUPPORTED THE GERMAN AE NOTE (REF D) UNCONDITIONALLY, FEELING THAT A 2-AXIS CNC DID NOTHING TO IMPROVE THE QUALITY OF THE MACHINES TO WHICH THE CONTROLS WOULD BE ATTACHED. CONSEQUENTLY, THEY FELT THAT THERE SHOULD BE NO RESOLUTION (MPI) DIFFERENTIAL IN AE TREATMENT BETWEEN HARDWIRED 3-AXIS AND CNC 2-AXIS CONTROLLERS.

7. THE UK AUTHORITIES ALSO DID NOT AGREE WITH US FEARS ON THE POTENTIAL DISCLOSURE OF CNC TECHNOLOGY, PARTICULARLY SOFTWARE. THEY NOTED THAT THE MASTER OR EXECUTIVE TAPES WERE NOT PROVIDED AS PART OF SOFTWARE PACKAGES WHICH WENT WITH CONTROLLERS, AND EVEN THOUGH IT WOULD BE MORE RESTRICTIVE THAN THE LEVEL OF CONTROL THEY BELIEVED JUSTIFIED, WOULD BE PREPARED TO EXPLORE THE IMPOSITION OF FURTHER SAFEGUARD PROCEDURES (ON-SITE INSPECTION, SERVICING CONTRACTS, PARTS CONTROL, ETC.) WHICH WOULD LIMIT POSSIBILITIES OF DIVERSION. NEVERTHELESS, THEY WERE CONVINCED THAT IMPORTANT PROGRAMMING TECHNOLOGY COULD NOT BE TRANSFERRED VIA THE ROUTINE OPERATIONAL MACHINE PROGRAMS WHICH WOULD BE EXPORTED.

8. UK CRITICISM OF THE US PROPOSAL WAS SUPPORTED BY THE JAPANESE, FRENCH, ITALIAN, AND DUTCH DELEGATES. THE FRENCH BELIEVED THE US COUNTERPROPOSAL HAD NOT TAKEN SUFFICIENTLY INTO ACCOUNT THE NEED FOR A BALANCED APPROACH.  
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FICIENT ACCOUNT OF THE ROUND I VIEWS OF OTHER MEMBERS, AND HENCE WERE DISAPPOINTED IN IT. THE DUTCH WERE ALSO DISAPPOINTED AND URGED THAT IT BE RECONSIDERED TO GIVE MORE WEIGHT TO PC VIEWS. SPECIFICALLY, THEY CALLED FOR IDENTICAL RESOLUTION PARAMETERS FOR BOTH CNC AND HARD-WIRED CONTROLLERS, I.E., 0.001 MM.

9. FURTHER TO POINT RAISED BY GERMANS IN TWG (PARA. 3), FRENCH DEL STATED THAT QUESTION OF ROBOTS AND MANIPULATORS HAD BEEN DEALT WITH IN 71 LIST REVIEW. HE REITERATED FRENCH POSITION THAT THESE WERE NOT MACHINE TOOLS AND HENCE WERE NOT COVERED BY IL 1091. FRENCH WOULD TAKE A STRONG RESERVE AGAINST ATTEMPT TO EXTEND COVERAGE TO SUCH EQUIPMENT VIA 1091.

10. CHAIRMAN THEN NOTED JAPANESE DEL HAD REQUESTED FURTHER ATTEMPT TO RESOLVE PORTION OF ITS PROPOSAL DIS-

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CUSSED IN ROUND I TWG (PARA. 5 D., REV (74) 1091/2). HE NOTED THAT WHILE JAPANESE HELD THEIR NOTE 2(A) PROPOSAL IN ABEYANCE PENDING AGREEMENT ON WHAT HAS NOW BECOME REF D, THEY WOULD LIKE TO HEAR VIEWS ON NOTE 2(B) PROPOSAL CONCERNING INTERFACES TO ALLOW DIRECT COMPUTER

INPUT. DUTCH, UK, FRENCH, AND GERMAN DELEGATIONS CONFIRMED TWG AGREEMENT. US (WHICH WAS WITHOUT INSTRUCTIONS ON THIS POINT) NOTED THAT IT MUST RESERVE UNTIL THE DNC PORTION OF THE US COUNTERPROPOSAL WAS RESOLVED, AND CANADA, WHICH HAD NOT PARTICIPATED IN TWG, RESERVED.

11. NOTWITHSTANDING CRITICAL COMMENTS IN PARAS. 5-7 ABOVE, USDEL REQUESTED DELEGATIONS BE POLLED ON REF F PROPOSAL TO ASSIST US IN REVIEWING THE MATTER. IN TOUR OF THE TABLE, GERMANS AND DUTCH COULD AGREE TO THE US PROPOSAL ON THE CONDITION THE GERMAN NOTE IN REF D WERE INCORPORATED IN THE FINAL TEXT. THE DUTCH ALSO NOTED THEY MIGHT HAVE DIFFICULTY CONTROLLING SOFTWARE BEYOND THE TERMS OF AP5. JAPAN AGREED AD REF, AND CANADIANS, FRENCH, ITALIANS, AND UK RESERVED. ITALIANS WOULD, HOWEVER, NOT STAND IN THE WAY OF UNANIMITY, W THE UK ALSO INSISTED THAT THE GERMAN NOTE BE INCLUDED IN A FINAL TEST. WITHIN THESE GENERAL POSITIONS, DELS REACTED AS FOLLOWS TO MORE DETAILED CANVASS - SUBITEM (A): DUTCH AND GERMANS AGREED, LATTER CONFIDENTIAL

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SUBJECT TO INCLUSION CNC NOTE. FRENCH AND UK AGREED AD REF, FORMER SUBJECT TO CLARIFICATION OF NOTES TO THIS SUB-ITEM.

SUBITEM (B): FRENCH RESERVED, UK AGREED AD REF, AND DUTCH COULD AGREE IF THE POSITIONING ACCURACY PARAMETER FOR BORING MILLS AND MACHINING CENTERS IN (B)(I)(2) WERE LIBERALIZED TO PLUS/MINUS 0.005 MM AND 0.002 SINCE SUCH MACHINES ARE INHERENTLY MORE ACCURATE THAN MILLING MACHINES (SEE ALSO PARA. 2(A) ABOVE).

SUBITEM (C): DUTCH AGREED SUBJECT TO CHANGES SUGGESTED IN TWG (SEE PARA. 2(B) ABOVE), JAPANESE AND UK AGREED AD REF' LATTER ON SAME CONDITION, AND FRENCH RESERVED.

SUBITEM (D): DUTCH AGREED, FRENCH AND UK AGREED AD REF.

AE NOTE L: DUTCH AGREED SUBJECT TO PARAMETER CHANGES SUGGESTED FOR SUBITEM (B). FRENCH AND UK EACH AGREED AD REF TO CONDITIONS (AJ AND (B) BUT RESERVED ON CONDITION (C).

NOTES TO AE NOTE 1: DUTCH AGREED, UK AGREED AD REF, FRENCH RESERVED. AE NOTE 2: DUTCH AGREED AD REF AND FRENCH AND UK RESERVED. SOU: FRENCH, DUTCH, AND UK AGREED AD REF.

12. FRENCH, JAPANESE, DUTCH, AND UK AGREED TO GERMAN CNC NOTE, CANADA AND US RESERVED, AND ITALY GAVE NO POSITION.

13. ACTION REQUESTED: TTG-10 REEXAMINE TECHNICAL IS-

SUES NOTED ABOVE, INCLUDING JAPANESE PROPOSAL (PARA.

9). IN LIGHT OF ROUND II DISCUSSION, WG-I SHOULD RE-  
CONSIDER AMENDMENTS TO US NOTE 2 SUGGESTED BY UK AND THE  
EARLY SUBMISSION OF PROPOSED US AE NOTE 3.  
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## Message Attributes

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